



Montana Department of Transportation
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Memorandum

DISTRIBUTION

Carl S. Peil, P.E., Preconstruction Engineer
Mark A. Wissinger, P.E., Construction Engineer

July 24, 2002

Subject: Culvert and Trench Excavation

As the result of discussions with the District Construction Engineers and Contractors, we have determined that the cost of culvert excavation and trench excavation should be included in the unit price bid per linear meter of new culverts. We will implement this change as outlined below for upcoming bid lettings.

Our decision is based in the acknowledgment that the culvert excavation quantity calculated in accordance with the Standard Specifications results in an arbitrary value. Due to OSHA requirements for trenches and changes in pipe locations during field staking, separate pay quantities are not essential for contractors to determine their costs for installations or for contract administration. Also, documenting the quantity of culvert excavation during construction is a very time consuming process for our construction personnel.

It is recognized that the changes proposed may have some drawbacks or limitations; however, we believe the changes set forth balance the needs of all involved.

We will make changes to construction plans as follows:

- 1 Effective immediately separate bid items for culvert and trench excavation will be eliminated. This applies to all culverts, storm drains, sanitary sewers, stockpases and underpasses as covered by Section 603 of the Standard Specifications.
 - a. The attached Special Provision will be included in proposals.
 - b. Culvert removal will be paid at the unit price bid per linear meter of the culvert that is removed. Use Bid Item 602010000, Remove Pipe Culverts, regardless of the size of the culvert to be removed.
 - c. Culvert and trench excavation quantities calculated under previous procedures will be continue to be shown in the Summaries with a note indicating that the quantities are for informational purposes only and

- that they include any excavation necessary for placement of bedding and foundation material.
- d. When trench excavation is calculated and shown, add a note that the provisions of Section 207.03.3 apply.
 - e. Construction Bureau will advise contractors of the change.
2. Effective with projects in lettings after November 2002, the following process will be used to change culvert summaries and project proposals:
- a. The attached Special Provision will be included in proposals until the Standard Specifications are changed.
 - b. Culvert excavation and trench excavation quantities for bedding material and special foundations will not be calculated or shown on the summaries.
 - c. Culvert and trench excavation quantities will continue to be calculated per Standard Specification 207.04 and will be shown in the Summaries with a note indicating that the quantities are for informational purposes only. When trench excavation is shown add a note that the provisions of Section 207.03.3 apply.
 - d. Culvert excavation quantities for culvert removal will continue to be calculated and shown in Summaries as discrete items with a note for informational purposes only.
 - e. Construction Bureau will notify contractors of the changes.

If you would like additional information, call Mark Wissinger at 444-6008 or Carl S. Peil at 444-6242.

CSP.pf

Attachment

Distribution:

Martin VanMil, w/attach
 Larry Brazda, "
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 Lesly Tribelhorn, "
 Gary Neville, "
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cc: C. S. Peil J. A. Walther
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CULVERT EXCAVATION

This provision supercedes the appropriate items for payment in Section 207.05 and Section 602.05 of the Standard Specifications.

Culvert and trench excavation are not measured for payment. Include the excavation costs in the unit price bid for the new pipe.

Where bedding is required include the cost of the excavation necessary to place the bedding in the unit price bid per cubic meter of bedding.

When a special foundation is required include the cost of the excavation necessary to place the foundation material in the unit price bid per cubic meter of special foundation.

The culvert excavation to remove pipes is not measured for payment. Pipe culvert removal is measured by the linear meter of pipe to be removed to the nearest 0.1 meter.

The culvert excavation to relay pipes is not measured for payment. Include the excavation costs in the unit price bid for Relay Pipe Culvert.

MATERIALS IN STORAGE ELIGIBLE FOR PAYMENT

The percent of quantity for partial payment detailed in Table 109-2 of the Standard Specifications is revised for the materials listed below

<u>MATERIAL</u>	<u>PERCENT OF QUANTITY FOR PARTIAL PAYMENT</u>
Corrugated Metal Pipe	30
Structural plate Pipe or Pipe Arch	40
Concrete Pipe	40
Water and Sewer Pipe and Appurtenances	30

All other requirements of Subsection 109.07 apply.